Application No.	Applicant(s)
10/614,042	OSAWA, HIROSHI
Examiner	Art Unit
Holly Rickman	1773

Notice of Allowability	Examiner	Art Unit	
	Holly Rickman	1773	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatior GHTS. This application is subject t	plication. If not includ will be mailed in due	led course. THIS
1.  This communication is responsive to the amendment filed:	<u>12/9/04</u> .		
2.  ☐ The allowed claim(s) is/are 1-22.			
3. The drawings filed on <u>08 July 2003</u> are accepted by the Ex	aminer.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the other priority documents have THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. </li> </ul>	been received.  been received in Application No cuments have been received in this  of this communication to file a reply	national stage applica	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF
<ul> <li>6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> <li>7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ul>			
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amend 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	·

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## REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the present claims are allowable over the closest prior art to Yoshida et al. (US 2003/0124389) and Chen et al. (US 6759149).

It is noted that the claims have been amended to delete the term "-based" from recitations directed to specific Cr and Co "based" alloys. In claim 1, for example, layer A is now selected from a group consisting of alloys including "a Cr-Ta alloy." The examiner has interpreted the claims as newly amended to mean that the recited alloys are limited to the two (as in the case of Cr-Ta) or three (as in the case of Co-Mo-W) specifically recited elements. Thus, the claimed alloys now exclude the presence of unrecited alloying components. The original disclosure supports this interpretation of the claims and the amendment of the claims in this manner because one of ordinary skill in the art at the time of invention would have readily recognized that a disclosure of "a Cr-Ta-based alloy", for example, would necessarily encompass the binary form the of the alloy.

The closest prior art to Yoshida and Chen fail to teach or suggest an underlayer structure formed from at least two non-magnetic layers containing the specific alloys set forth in the claims. Instead, Yoshida and Chen teach the use of Co alloy underlayers which contain additional alloying elements excluded by the present claims. The prior art fails to teach or suggest a motivation to remove these unrecited elements (e.g., Cr) from the alloys taught by Yoshida and Chen.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Holly Rickman Primary Examiner Art Unit 1773

March 4, 2005